

NICHOLAS J. MELAS  
PRESIDENT



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STREETS AND SANITATION  
**METROPOLITAN SANITARY DISTRICT  
OF GREATER CHICAGO**

100 EAST ERIE ST., CHICAGO, ILLINOIS 60611 TEL. 751-5600

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August 5, 1983

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Mr. Richard J. Carlson, Director  
Illinois Environmental Protection Agency  
2200 Churchill Road  
Springfield, Illinois 62706

AUG 11 1983

Attention: Mr. Thomas G. McSwiggin, Manager  
Division of Water Pollution Control

Environmental Protection Agency  
Division of Water Pollution Control  
Permit Section-Springfield  
State of Illinois

Subject: LASMA Solids Drying Site - W.S.W.-S.T.W.  
Contract 80-159-2P  
IEPA Permit No. 1983-SA-1597  
Groundwater Monitoring Well Data

Dear Sir:

Attached herewith is Table 1 containing analytical data for water samples from Monitoring Wells M-11, M-12, M-13, M-14 and M-15 on July 8 and July 21, 1983. Also attached is Figure 1 showing the location of the monitoring wells.

Very truly yours,

*Leo R. DiVita*

LEO R. DIVITA  
Assistant Chief Engineer

EPA Region 5 Records Ctr.



300962

**RECEIVED**

AUG 12 1983

LRD:ab

w/attachments

cc: Mr. Marek, Coordinator, IEPA  
w/attach.

STATE OF ILLINOIS

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

TABLE 1

ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH  
M-15 AT THE LAWNDALE AVENUE SOLIDS MANAGEMENT AREA  
THE WELLS WERE SAMPLED ON JULY 8, 1983

Parameter		Monitoring Well No.				
		M-11	M-12	M-13	M-14	M-15
pH		7.4	7.7	7.4	7.8	7.2
EC	µmhos/cm	1560	1950	2550	1230	3120
Total Dissolved Solids	mg/L	688	876	1448	548	1736
Total Dissolved Org. C	"	6	4	3	3	7
Cl	"	3	4	3	3	3
SO <sub>4</sub>	"	238	322	480	173	495
NH <sub>3</sub> -N	"	1.3	0.3	0.4	0.2	0.5
NO <sub>2</sub> -N	"	0.02	0.01	0.02	0.02	0.01
NO <sub>3</sub> -N	"	0.02	0.02	<0.01	0.02	0.01
Alk. as CaCO <sub>3</sub>	"	342	286	321	305	336
Fecal Coliform 100 mL		<1	<1	<1	<1	<1
Static H <sub>2</sub> O elev.	ft.	580.8	578.4	584.6	585.9	577.8
As	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
B	"	1.5	1.8	1.3	1.1	1.0
Ca	"	96	87	189	88	267
Cd	"	<0.02	<0.02	<0.02	<0.02	<0.02
Cu	"	<0.01	<0.01	<0.01	<0.01	<0.01
Hg	µg/L	<0.1	2.0	0.4	<0.1	0.8
Mg	mg/L	48	38	86	44	102
Mn	"	0.02	0.02	0.03	0.03	0.03
Na	"	58	147	88	42	58
Ni	"	0.1	0.1	0.1	0.1	0.1
Pb	"	<0.02	<0.02	<0.02	<0.02	<0.02
Se	"	<0.1	<0.1	<0.1	<0.1	<0.1

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TABLE 1

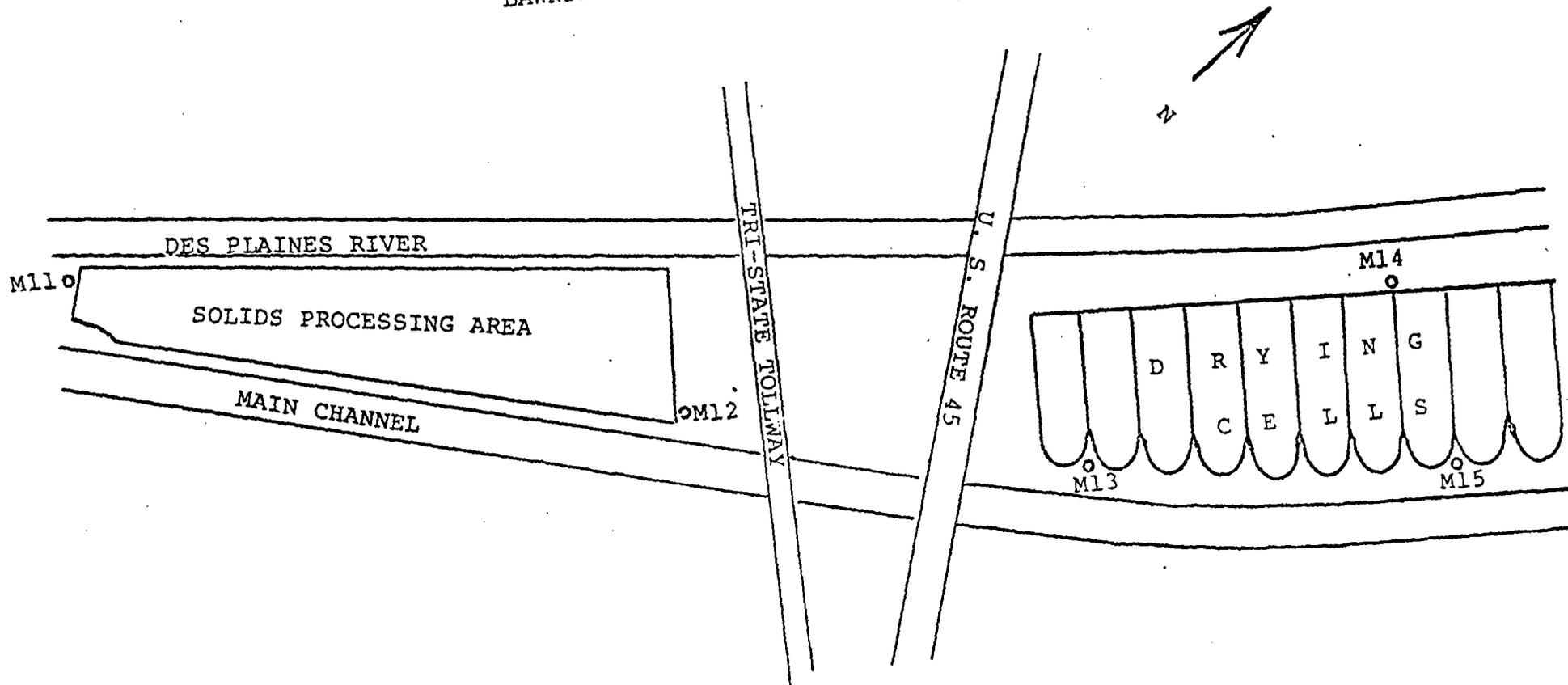
ANALYSIS OF WATER FROM MONITORING WELLS M-11 THROUGH  
M-15 AT THE LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA.  
THE WELLS WERE SAMPLED ON JULY 21, 1983

Parameter		Monitoring Well No.				
		M-11	M-12	M-13	M-14	M-15
pH		7.9	8.0	8.1	7.9	7.6
EC	µmhos/cm	1500	1910	2450	1250	2520
Total Dissolved Solids	mg/L	734	890	1596	572	1824
Total Dissolved Org. C	"	19	9	6	4	6
Cl	"	8	15	11	7	11
SO <sub>4</sub>	"	208	322	525	124	545
NH <sub>3</sub> -N	"	1.2	0.3	0.3	0.2	0.4
NO <sub>2</sub> -N	"	0.02	0.02	0.01	0.02	0.02
NO <sub>3</sub> -N	"	0.04	0.01	0.02	0.01	0.03
Alk. as CaCO <sub>3</sub>	"	320	284	324	308	352
Fecal Coliform/ 100 mL		<1	<1	<1	<1	<1
Static H <sub>2</sub> O elev.	ft.	579.8	577.9	584.1	585.5	578.0
As	mg/L	0.3	0.2	0.3	0.4	0.5
B	"	1.5	1.8	1.3	1.1	1.0
Ca	"	116	94	173	96	223
Cd	"	<0.02	<0.02	<0.02	<0.02	<0.02
Cu	"	0.01	<0.01	<0.01	<0.01	0.01
Hg	µg/L	0.4	0.2	<0.1	0.5	0.2
Mg	mg/L	38	31	79	38	97
Mn	"	0.01	0.01	0.02	0.01	0.02
Na	"	54	133	88	40	61
Ni	"	<0.02	<0.02	<0.02	<0.02	<0.02
Pb	"	<0.02	<0.02	<0.02	<0.02	<0.02
Se	"	<0.1	0.1	0.1	0.3	0.3

THE METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

FIGURE 1

LOCATION OF THE MONITORING WELLS AT THE  
LAWNSDALE AVENUE SOLIDS MANAGEMENT AREA



○ Monitoring Well